BC #8

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/937,295

DATE: 01/14/2002
TIME: 13:41:26

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw

ENTERED

<110> APPLICANT: UDEN, MARK
MITROPHANOUS, KYRIACOS
<120> TITLE OF INVENTION: RETROVIRAL VECTOR COMPRISING FUNCTIONAL AND NON-FUNCTIONAL SPICE DONOR AND SPLICE ACCEPTOR SITES
<130> FILE REFERENCE: 078883/0134
<140> CURRENT APPLICATION NUMBER: 09/937,295
<141> CURRENT FILING DATE: 2001-09-24
<150> PRIOR APPLICATION NUMBER: PCT/GB00/01091
<151> PRIOR FILING DATE: 2000-03-22
<150> PRIOR APPLICATION NUMBER: GB 9906615.1
<151> PRIOR FILING DATE: 1999-03-22
<160> NUMBER OF SEQ ID NOS: 42
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 5689
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic MLV pICUT sequence
<400> SEQUENCE: 1

gctagcttaa gtaacgccac tttgcaaggc atggaaaaat acataactga gaatagaaaa 60
gttcagatca aggtcaggaa caaagaaaca gctgaatacc aaacaggata tctgtggtaa 120
gcggttcctg ccccggctca gggccaagaa cagatgagac agctgagtga tgggccaaac 180
aggatatctg tggtaagcag ttcctgcccc ggctcggggc caagaacaga tggtccccag 240
atgcggtcca gccctcagca gtttctagtg aatcatcaga tgtttccagg gtgccccaag 300
gacctgaaaa tgaccctgta ccttatttga actaaccaat cagttcgctt ctcgcttctg 360
ttcgcgcgct tccgctctcc gagctcaata aaagagccca caacccctca ctcggcgcgc 420
cagtcttccg atagactgcg tcgcccgggt acccgtattc ccaataaagc ctcttgctgt 480
ttgcatccga atcgtggtct cgctgttcct tgggagggtc tcctctgagt gattgactac 540
ccacgacggg ggtctttcat ttgggggctc gtccgggatt tggagacccc tgcccaggga 600
ccaccgaccc accaccggga ggcaagctgg ccagcaactt atctgtgtct gtccgattgt 660
ctagtgtcta tgtttgatgt tatgcgcctg cgtctgtact agttagctaa ctagctctgt 720
atctggcgga cccgtggtgg aactgacgag ttctgaacac ccggccgcaa ccctgggaga 780
cgtcccaggg actttggggg ccgtttttgt ggcccgacct gaggaaggga gtcgatgtgg 840
aatccgaccc cgtcaggata tgtggttctg gtaggagacg agaacctaaa acagttcccg 900
cctccgtctg aatttttgct ttcggtttgg aaccgaagcc gcgcgtcttg tctgctgcag 960
cgctgcagca tcgttctgtg ttgtctctgt ctgactgtgt ttctgtattt gtctgaaaat 1020
tagggccaga ctgttaccac tcccttaagt ttgaccttag gtcactggaa agatgtcgag 1080
cggatcgctc acaaccagtc ggtagatgtc aagaagagac gttgggttac cttctgctct 1140
gcagaatggc caacctttaa cgtcggatgg ccgcgagacg gcacctttaa ccgagacctc 1200
atcacccagg ttaagatcaa ggtcttttca cctggcccgc atggacaccc agaccaggtc 1260
ccctacatcg tgacctggga agccttggct tttgaccccc ctccctgggt caagcccttt 1320
gtacacccta agcctccgcc tcctcttcct ccatccgccc cgtctctccc ccttgaacct 1380
cctcgttcga ccccgcctcg atcctccctt tatccagccc tcactccttc tctaggcgcc 1440
ggaattcgtt aactcgagga tctaacctag gtctcgagtg tttaaacact gggcttgtcg 1500
agacagagaa gactcttgcg tttctgatag gcacctattg gtcttactga catccacttt 1560

RAW SEQUENCE LISTING DATE: 01/14/2002
PATENT APPLICATION: US/09/937,295 TIME: 13:41:26

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw

60 gcctttctct ccacaggtga ggcctaggct tttgcaaaaa gcttgggctg caggtcgagg 1620
61 cggatctgat caagagacag gatgaggatc gtttcgcatg attgaacaag atggattgca 1680
62 cgcaggttct ccggccgctt gggtggagag gctattcggc tatgactggg cacaacagac 1740
63 aatcggctgc tctgatgccg ccgtgttccg gctgtcagcg caggggcgcc cggttctttt 1800
64 tgtcaagacc gacctgtccg gtgccctgaa tgaactgcag gacgaggcag cgcggctatc 1860
65 gtggctggcc acgacgggcg ttccttgcgc agctgtgctc gacgttgtca ctgaagcggg 1920
66 aagggactgg ctgctattgg gcgaagtgcc ggggcaggat ctcctgtcat ctcaccttgc 1980
67 tcctgccgag aaagtatcca tcatggctga tgcaatgcgg cggctgcata cgcttgatcc 2040
68 ggctacctgc ccattcgacc accaagcgaa acatcgcatc gagcgagcac gtactcggat 2100
69 ggaagccggt cttgtcgatc aggatgatct ggacgaagag catcaggggc tcgcgccagc 2160
70 cgaactgttc gccaggctca aggcgcgcat gcccgacggc gaggatctcg tcgtgaccca 2220
71 tggcgatgcc tgcttgccga atatcatggt ggaaaatggc cgcttttctg gattcatcga 2280
72 ctgtggccgg ctgggtgtgg cggaccgcta tcaggacata gcgttggcta cccgtgatat 2340
73 tgctgaagag cttggcggcg aatgggctga ccgcttcctc gtgctttacg gtatcgccgc 2400
74 tcccgattcg cagcgcatcg ccttctatcg ccttcttgac gagttcttct gagcgggact 2460
75 ctggggttcg ataaaataaa agattttatt tagtctccag aaaaaggggg gaatgaaaga 2520
76 ccccacctgt aggtttggca agctagctta agtaacgcca ttttgcaagg catggaaaaa 2580
77 tacataactg agaatagaga agttcagatc aaggtcagga acagatggaa cagctgaata 2640
78 tgggccaaac aggatatctg tggtaagcag ttcctgcccc ggctcagggc caagaacaga 2700
79 tggaacagct gaatatgggc caaacaggat atctgtggta agcagttcct gccccggctc 2760
80 agggccaaga acagatggtc cccagatgcg gtccagccct cagcagtttc tagagaacca 2820
81 tcagatgttt ccagggtgcc ccaaggacct gaaatgaccc tgtgccttat ttgaactaac 2880
82 caatcagttc gcttctcgct tctgttcgcg cgcttctgct ccccgagctc aataaaagag 2940
83 cccacaaccc ctcactcggg gcgccgttaa cactagtaag cttgctctaa ggtaaatatg 3000
84 tcgacaggcc tgcgccagtc ctccgattga ctgagtcgcc cgggtacccg tgtatccaat 3060
85 aaaccctctt gcagttgcat ccgacttgtg gtctcgctgt tccttgggag ggtctcctct 3120
86 gagtgattga ctacccgtca gcgggggtct ttcatttggg ggctcgtccg ggatcgggag 3180
87 acccctgccc agggaccacc gacccaccac cgggaggtaa gctggctgcc tcgcgcgttt 3240
88 cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct 3300
89 gtaagcggat gccgggagca gacaagcccg tcagggcgcg tcagcgggtg ttggcgggtg 3360
90 tcggggcgca gccatgaccc agtcacgtag cgatagcgga gtgtatactg gcttaactat 3420
91 gcggcatcag agcagattgt actgagagtg caccatatgc ggtgtgaaat accgcacaga 3480
92 tgcgtaagga gaaaataccg catcaggcgc tcttccgctt cctcgctcac tgactcgctg 3540
93 cgctcggtcg ttcggctgcg gcgagcggta tcagctcact caaaggcggt aatacggtta 3600
94 tccacagaat caggggataa cgcaggaaag aacatgtgag caaaaggcca gcaaaaggcc 3660
95 aggaaccgta aaaaggccgc gttgctggcg tttttccata ggctccgccc ccctgacgag 3720
96 catcacaaaa atcgacgctc aagtcagagg tggcgaaacc cgacaggact ataaagatac 3780
97 caggcgtttc cccctggaag ctccctcgtg cgctctcctg ttccgaccct gccgcttacc 3840
98 ggatacctgt ccgcctttct cccttcggga agcgtggcgc tttctcatag ctcacgctgt 3900
99 aggtatctca gttcggtgta ggtcgttcgc tccaagctgg gctgtgtgca cgaaccccc 3960
100 gttcagcccg accgctgcgc cttatccggt aactatcgtc ttgagtccaa cccggtaaga 4020
101 cacgacttat cgccactggc agcagccact ggtaacagga ttagcagagc gaggtatgta 4080
102 ggcggtgcta cagagttctt gaagtggtgg cctaactacg gctacactag aaggacagta 4140
103 tttggtatct gcgctctgct gaagccagtt accttcggaa aaagagttgg tagctcttga 4200
104 tccggcaaac aaaccaccgc tggtagcggt ggtttttttg tttgcaagca gcagattacg 4260
105 cgcagaaaaa aaggatctca agaagatcct ttgatctttt ctacggggtc tgacgctcag 4320
106 tggaacgaaa actcacgtta agggattttg gtcatgagat tatcaaaaag gatcttcacc 4380
107 tagatccttt taaattaaaa atgaagtttt aaatcaatct aaagtatata tgagtaaact 4440
108 tggtctgaca gttaccaatg cttaatcagt gaggcaccta tctcagcgat ctgtctattt 4500

RAW SEQUENCE LISTING DATE: 01/14/2002
PATENT APPLICATION: US/09/937,295 TIME: 13:41:26

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw

```
cgttcatcca tagttgcctg actccccgtc gtgtagataa ctacgatacg ggagggctta 4560
ccatctggcc ccagtgctgc aatgataccg cgagacccac gctcaccggc tccagattta 4620
tcagcaataa accagccagc cggaagggcc gagcgcagaa gtggtcctgc aactttatcc 4680
gcctccatcc agtctattaa ttgttgccgg gaagctagag taagtagttc gccagttaat 4740
agtttgcgca acgttgttgc cattgctgca ggcatcgtgg tgtcacgctc gtcgtttggt 4800
atggcttcat tcagctccgg ttcccaacga tcaaggcgag ttacatgatc ccccatgttg 4860
tgcaaaaaag cggttagctc cttcggtcct ccgatcgttg tcagaagtaa gttggccgca 4920
gtgttatcac tcatggttat ggcagcactg cataattctc ttactgtcat gccatccgta 4980
agatgctttt ctgtgactgg tgagtactca accaagtcat tctgagaata gtgtatgcgg 5040
cgaccgagtt gctcttgccc ggcgtcaaca cgggataata ccgcgccaca tagcagaact 5100
ttaaaagtgc tcatcattgg aaaacgttct tcggggcgaa aactctcaag gatcttaccg 5160
ctgttgagat ccagttcgat gtaacccact cgtgcaccca actgatcttc agcatctttt 5220
actttcacca gcgtttctgg gtgagcaaaa acaggaaggc aaaatgccgc aaaaaaggga 5280
ataagggcga cacggaaatg ttgaatactc atactcttcc tttttcaata ttattgaagc 5340
atttatcagg gttattgtct catgagcgga tacatatttg aatgtattta gaaaaataaa 5400
caaatagggg ttccgcgcac atttccccga aaagtgccac ctgacgtcta agaaaccatt 5460
attatcatga cattaaccta taaaaatagg cgtatcacga ggccctttcg tcttcaagaa 5520
ttcataccag atcaccgaaa actgtcctcc aaatgtgtcc ccctcacact cccaaattcg 5580
cgggcttctg cctcttagac cactctaccc tattccccac actcaccgga gccaaagccg 5640
cggcccttcc gtttctttgc ttttgaaaga ccccacccgt aggtggcaa              5689
<210> SEQ ID NO: 2
<211> LENGTH: 9756
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      pEICUT-LacZ sequence
<400> SEQUENCE: 2
tgaataataa aatgtgtgtt tgtccgaaat acgcgttttg agatttctgt cgccgactaa 60
attcatgtcg cgcgatagtg gtgtttatcg ccgatagaga tggcgatatt ggaaaaattg 120
atatttgaaa atatggcata ttgaaaatgt cgccgatgtg agtttctgtg taactgatat 180
cgccatttt ccaaaagtga tttttgggca tacgcgatat ctggcgatag cgcttatatc 240
gtttacgggg gatggcgata gacgactttg gtgacttggg cgattctgtg tgtcgcaaat 300
atcgcagttt cgatataggt gacagacgat atgaggctat atcgccgata gaggcgacat 360
caagctggca catggccaat gcatatcgat ctatacattg aatcaatatt ggccattagc 420
catattattc attggttata tagcataaat caatattggc tattggccat tgcatacgtt 480
gtatccatat cgtaatatgt acatttatat tggctcatgt ccaacattac cgccatgttg 540
acattgatta ttgactagtt attaatagta atcaattacg gggtcattag ttcatagccc 600
atatatggag ttccgcgtta cataacttac ggtaaatggc ccgcctggct gaccgcccaa 660
cgacccccgc ccattgacgt caataatgac gtatgttccc atagtaacgc caatagggac 720
tttccattga cgtcaatggg tggagtattt acggtaaact gcccacttgg cagtacatca 780
agtgtatcat atgccaagtc cgcccccctat tgacgtcaat gacggtaaat ggcccgcctg 840
gcattatgcc cagtacatga ccttacggga ctttcctact tggcagtaca tctacgtatt 900
agtcatcgct attaccatgg tgatgcggtt ttggcagtac accaatgggc gtggatagcg 960
gtttgactca cggggatttc caagtctcca ccccattgac gtcaatggga gtttgttttg 1020
gcaccaaaat caacgggact ttccaaaatg tcgtaacaac tgcgatcgcc cgccccgttg 1080
acgcaaatgg gcggtaggcg tgtacggtgg gaggtctata taagcagagc tcgtttagtg 1140
aaccgggcac tcagattctg cggtctgagt cccttctctg ctgggctgaa aaggcctttg 1200
taataaatat aattctctac tcagtccctg tctctagttt gtctgttcga gatcctacag 1260
```

RAW SEQUENCE LISTING DATE: 01/14/2002
PATENT APPLICATION: US/09/937,295 TIME: 13:41:26

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw

```
161 ttggcgcccg aacagggacc tgagaggggc gcagacccta cctgttgaac ctggctgatc 1320
162 gtaggatccc cgggacagca gaggagaact tacagaagtc ttctggaggt gttcctggcc 1380
163 agaacacagg aggacaggta agatgggaga ccctttgaca tggagcaagg cgctcaagaa 1440
164 gttagagaag gtgacggtac aagggtctca gaaattaact actggtaact gtaattgggc 1500
165 gctaagtcta gtagacttat ttcatgatac caactttgta aaagaaaagg actctagagt 1560
166 cgacccccctc gacgtttaaa cactgggctt gtcgagacag agaagactct tgcgtttctg 1620
167 ataggcacct attggtctta ctgacatcca ctttgccttt ctctccacag gtcacgtgaa 1680
168 gctagcctcg aggatctgcg gatccgggga attccccagt ctcaggatcc accatggggg 1740
169 atcccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 1800
170 ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc accgatcgcc 1860
171 cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt tgcctggttt ccggcaccag 1920
172 aagcggtgcc ggaaagctgg ctggagtgcg atcttcctga ggccgatact gtcgtcgtcc 1980
173 cctcaaactg gcagatgcac ggttacgatg cgcccatcta caccaacgta acctatccca 2040
174 ttacggtcaa tccgccgttt gttcccacgg agaatccgac gggttgttac tcgctcacat 2100
175 ttaatgttga tgaaagctgg ctacaggaag gccagacgcg aattattttt gatggcgtta 2160
176 actcggcgtt tcatctgtgg tgcaacgggc gctgggtcgg ttacggccag gacagtcgtt 2220
177 tgccgtctga atttgacctg agcgcatttt tacgcgccgg agaaaaccgc ctcgcggtga 2280
178 tggtgctgcg ttggagtgac ggcagttatc tggaagatca ggatatgtgg cggatgagcg 2340
179 gcattttccg tgacgtctcg ttgctgcata aaccgactac acaaatcagc gatttccatg 2400
180 ttgccactcg ctttaatgat gatttcagcc gcgctgtact ggaggctgaa gttcagatgt 2460
181 gcggcgagtt gcgtgactac ctacgggtaa cagtttcttt atggcagggt gaaacgcagg 2520
182 tcgccagcgg caccgcgcct ttcggcggtg aaattatcga tgagcgtggt ggttatgccg 2580
183 atcgcgtcac actacgtctg aacgtcgaaa acccgaaact gtggagcgcc gaaatcccga 2640
184 atctctatcg tgcggtggtt gaactgcaca ccgccgacgg cacgctgatt gaagcagaag 2700
185 cctgcgatgt cggtttccgc gaggtgcgga ttgaaaatgg tctgctgctg ctgaacggca 2760
186 agccgttgct gattcgaggc gttaaccgtc acgagcatca tcctctgcat ggtcaggtca 2820
187 tggatgagca gacgatggtg caggatatcc tgctgatgaa gcagaacaac tttaacgccg 2880
188 tgcgctgttc gcattatccg aaccatccgc tgtggtacac gctgtgcgac cgctacggcc 2940
189 tgtatgtggt ggatgaagcc aatattgaaa cccacggcat ggtgccaatg aatcgtctga 3000
190 ccgatgatcc gcgctggcta ccggcgatga gcgaacgcgt aacgcgaatg gtgcagcgcg 3060
191 atcgtaatca cccgagtgtg atcatctggt cgctggggaa tgaatcaggc cacggcgcta 3120
192 atcacgacgc gctgtatcgc tggatcaaat ctgtcgatcc ttcccgcccg gtgcagtatg 3180
193 aaggcggcgg agccgacacc acggccaccg atattatttg cccgatgtac gcgcgcgtgg 3240
194 atgaagacca gcccttcccg gctgtgccga aatggtccat caaaaaatgg ctttcgctac 3300
195 ctggagagac gcgcccgctg atcctttgcg aatacgccca cgcgatgggt aacagtcttg 3360
196 gcggtttcgc taaatactgg caggcgtttc gtcagtatcc ccgtttacag ggcggcttcg 3420
197 tctgggactg ggtggatcag tcgctgatta aatatgatga aaacggcaac ccgtggtcgg 3480
198 cttacggcgg tgattttggc gatacgccga acgatcgcca gttctgtatg aacggtctgg 3540
199 tctttgccga ccgcacgccg catccagcgc tgacggaagc aaaacaccag cagcagtttt 3600
200 tccagttccg tttatccggg caaaccatcg aagtgaccag cgaatacctg ttccgtcata 3660
201 gcgataacga gctcctgcac tggatggtgg cgctggatgg taagccgctg gcaagcggtg 3720
202 aagtgcctct ggatgtcgct ccacaaggta aacagttgat tgaactgcct gaactaccgc 3780
203 agccggagag cgccgggcaa ctctggctca cagtacgcgt agtgcaaccg aacgcgaccg 3840
204 catggtcaga agccgggcac atcagcgcct ggcagcagtg gcgtctggcg gaaaacctca 3900
205 gtgtgacgct ccccgccgcg tcccacgcca tcccgcatct gaccaccagc gaaatggatt 3960
206 tttgcatcga gctgggtaat aagcgttggc aatttaaccg ccagtcaggc tttctttcac 4020
207 agatgtggat tggcgataaa aaacaactgc tgacgccgct gcgcgatcag ttcacccgtg 4080
208 caccgctgga taacgacatt ggcgtaagtg aagcgacccg cattgaccct aacgcctggg 4140
209 tcgaacgctg gaaggcggcg ggccattacc aggccgaagc agcgttgttg cagtgcacgg 4200
```

RAW SEQUENCE LISTING DATE: 01/14/2002
PATENT APPLICATION: US/09/937,295 TIME: 13:41:26

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw

```
210 cagatacact tgctgatgcg gtgctgatta cgaccgctca cgcgtggcag catcagggga 4260
211 aaaccttatt tatcagccgg aaaacctacc ggattgatgg tagtggtcaa atggcgatta 4320
212 ccgttgatgt tgaagtggcg agcgatacac cgcatccggc gcggattggc ctgaactgcc 4380
213 agctggcgca ggtagcagag cgggtaaact ggctcggatt agggccgcaa gaaaactatc 4440
214 ccgaccgcct tactgccgcc tgttttgacc gctgggatct gccattgtca gacatgtata 4500
215 ccccgtacgt cttcccgagc gaaaacggtc tgcgctgcgg gacgcgcgaa ttgaattatg 4560
216 gcccacacca gtggcgcggc gacttccagt tcaacatcag ccgctacagt caacagcaac 4620
217 tgatggaaac cagccatcgc catctgctgc acgcggaaga aggcacatgg ctgaatatcg 4680
218 acggtttcca tatggggatt ggtggcgacg actcctggag cccgtcagta tcggcggaat 4740
219 tccagctgag cgccggtcgc taccattacc agttggtctg gtgtcaaaaa taataataac 4800
220 cgggcagggg ggatccgcag atccggctgt ggaatgtgtg tcagttaggg tgtggaaagt 4860
221 ccccaggctc cccagcaggc agaagtatgc aaagcatgcc tgcagcccgg gggatccact 4920
222 agtgtatgtt tagaaaaaca agggggggaac tgtggggttt ttatgagggg ttttataaat 4980
223 gattataaga gtaaaaagaa agttgctgat gctctcataa ccttgtataa cccaaaggac 5040
224 tagctcatgt tgctaggcaa ctaåaccgca ataaccgcat ttgtgacgcg agttccccat 5100
225 tggtgacgcg ttttgagatt tctgtcgccg actaaattca tgtcgcgcga tagtggtgtt 5160
226 tatcgccgat agagatggcg atattggaaa aattgatatt tgaaaatatg gcatattgaa 5220
227 aatgtcgccg atgtgagttt ctgtgtaact gatatcgcca tttttccaaa agtgattttt 5280
228 gggcatacgc gatatctggc gatagcgctt atatcgttta cgggggatgg cgatagacga 5340
229 ctttggtgac ttgggcgatt ctgtgtgtcg caaatatcgc agtttcgata taggtgacag 5400
230 acgatatgag gctatatcgc cgatagaggc gacatcaagc tggcacatgg ccaatgcata 5460
231 tcgatctata cattgaatca atattggcca ttagccatat tattcattgg ttatatagca 5520
232 taaatcaata ttggctattg gccattgcat acgttgtatc catatcgtaa tatgtacatt 5580
233 tatattggct catgtccaac attaccgcca tgttgacatt gattattgac tagttattaa 5640
234 tagtaatcaa ttacggggtc attagttcat agcccatata tggagttccg cgttacataa 5700
235 cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata 5760
236 atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag 5820
237 tatttacggt aaactgccca cttggcagta catcaagtgt atcatatgcc aagtccgccc 5880
238 cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacctta 5940
239 cgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg 6000
240 cggttttggc agtacaccaa tgggcgtgga tagcggtttg actcacgggg atttccaagt 6060
241 ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca 6120
242 aaatgtcgta acaactgcga tcgcccgccc cgttgacgca aatgggcggt aggcgtgtac 6180
243 ggtgggaggt ctatataagc agagctcgtt tagtgaaccg acttaagtct tcctgcaggg 6240
244 gctctaaggt aaatagggca ctcagattct gcggtctgag tcccttctct gctgggctga 6300
245 aaaggccttt gtaataaata taattctcta ctcagtccct gtctctagtt tgtctgttcg 6360
246 agatcctaca gttggcgccc gaacagggac ctgagagggg cgcagaccct acctgttgaa 6420
247 cctggctgat cgtaggatcc ccggccaggt gtggaaagtc cccaggctcc ccagcaggca 6480
248 gaagtatgca aagcatgcat ctcaattagt cagcaaccat agtcccgccc ctaactccgc 6540
249 ccatcccgcc cctaactccg cccagttccg cccattctcc gccccatggc tgactaattt 6600
250 tttttattta tgcagaggcc gaggccgcct cggcctctga gctattccag aagtagtgag 6660
251 gaggcttttt tggaggccta ggcttttgca aaaagcttga ttcttctgac acaacagtct 6720
252 cgaacttaag gctagagcca ccatgattga acaagatgga ttgcacgcag gttctccggc 6780
253 cgcttgggtg gagaggctat tcggctatga ctgggcacaa cagacaatcg gctgctctga 6840
254 tgccgccgtg ttccggctgt cagcgcaggg gcgcccggtt ctttttgtca agaccgacct 6900
255 gtccggtgcc ctgaatgaac tgcaggacga ggcagcgcgg ctatcgtggc tggccacgac 6960
256 gggcgttcct tgcgcagctg tgctcgacgt tgtcactgaa gcgggaaggg actggctgct 7020
257 attgggcgaa gtgccggggc aggatctcct gtcatctcac cttgctcctg ccgagaaagt 7080
258 atccatcatg gctgatgcaa tgcggcggct gcatacgctt gatccggcta cctgcccatt 7140
```

VERIFICATION SUMMARY DATE: 01/14/2002
PATENT APPLICATION: US/09/937,295 TIME: 13:41:27

Input Set : A:\78883134.app
Output Set: N:\CRF3\01142002\I937295.raw